PATENT

Atty. Dkt. No. APPW005191.C1/ISM/CORE/MCVD/PJS Serial No.: 10/792,323

IN THE CLAIMS:

Please cancel claims 2, 5-7, 14-15, and 18-20, and amend the claims as

follows:

1. (Currently Amended) An apparatus for vaporizing a solid precursor,

comprising:

a housing defining an interior volume having an inlet for receiving a carrier gas

and an outlet operably connected to an atomic layer deposition chamber;

at least two surfaces contained in the housing, wherein the at least two

surfaces contain stainless steel, have a tantalum-containing the solid precursor

applied thereto, and are spaced to allow passage of the carrier gas therebetween; and

at least one heating member contained in the housing, wherein the inlet is

substantially perpendicular to the at least two surfaces.

2. (Cancelled)

3. (Currently Amended) The apparatus of claim [[2]] 1, wherein the at least

two surfaces are selected from the group consisting of a baffle, a rod, a mesh and a

grating.

4. (Original) The apparatus of claim 1, wherein the at least two surfaces have

a form selected from the group consisting of an s-shape, a linear shape and a cone

shape.

5-7. (Cancelled)

Page 2

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PATENT

Atty. Dkt. No. APPM/005191.C1/ISM/CORE/MCVD/PJS

Serial No.: 10/792,323

8. (Currently Amended) An apparatus for vaporizing a solid precursor,

comprising:

a housing defining an interior volume having an inlet for receiving a carrier gas,

and an outlet for delivering the carrier gas to an atomic layer deposition chamber, and

a vaporized solid precursor, wherein the vaporized solid precursor originates from the

a solid tantalum-containing precursor;

a first wall to support the inlet;

at least ene two surface surfaces contained in the housing for application of the

solid tantalum-containing precursor, wherein the at least one two surface surfaces are

is located on a second wall adjoining and substantially perpendicular to the first wall

and the at least ene two surfaces are is spaced to allow passage of the carrier

gas; and

a heating member contained in the housing.

9. (Currently Amended) The apparatus of claim 8, wherein the outlet is

operably connected to [[a]] an atomic layer reaction chamber of a deposition chamber.

10. (Original) The apparatus of claim 9, wherein the at least one surface is

selected from the group consisting of a baffle, a rod, a mesh and a grating.

11. (Original) The apparatus of claim 8, wherein the heating member is

contained within the at least one surface.

12. (Original) The apparatus of claim 9, wherein the at least one surface has a

form selected from the group consisting of an s-shape, a linear shape and a cone

shape.

Page 3

PATENT

Atty. Dkt. No. APPM/005191.C1/ISM/CORE/MCVD/PJS

Serial No.: 10/792,323

13. (Original) The apparatus of claim 12, wherein the at least one surface is

formed of a material selected from the group consisting of stainless steel and ceramic.

14-15. (Cancelled)

16. (Currently Amended) An apparatus for vaporizing a solid precursor,

comprising:

a housing defining an interior volume having an inlet for receiving a carrier gas

and an outlet for delivering the carrier gas and a vaporized solid precursor to an

atomic layer deposition chamber, wherein the vaporized solid precursor originates

from the a solid tantalum-containing precursor;

at least two surfaces contained in the housing, wherein the at least two

surfaces contain a ceramic material, have the solid precursor applied thereto, and are

spaced to allow passage of the carrier gas therebetween; and

at least one heating member contained in at least one wall of the housing.

17. (Currently Amended) The apparatus of claim 16, wherein the at least two

surfaces is are selected from the group consisting of a baffle, a rod, a mesh and a

grating.

18-20. (Cancelled)